



November 11, 2016

Meagan E. Ormand Golder Associates Inc. 2108 W. Laburnum Ave. Suite 200 Richmond, VA 23227

RE: Project: Bremo weekly Process Pace Project No.: 92319083

Dear Meagan Ormand:

Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring for Nicole Gasiorowski

Kein Hung

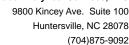
nicole.gasiorowski@pacelabs.com

Project Manager

Enclosures

cc: Ron DiFrancesco, Golder Associates Inc. Arielle Green, Golder Associates Inc. Martha Smith, Golder Associates Inc. Mike Williams, Golder Associates Inc







CERTIFICATIONS

Project: Bremo weekly Process

Pace Project No.: 92319083

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174

Alabama Certification #: 41320 Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079 Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maryland Certification: #346 Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 Nevada Certification: FL NELAC Reciprocity

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710 Oklahoma Certification #: D9947 Pennsylvania Certification #: 68-00547 Puerto Rico Certification #: FL01264 South Carolina Certification: #96042001 Tennessee Certification #: TN02974 Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity Virginia Environmental Certification #: 460165

Wyoming Certification: FL NELAC Reciprocity West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 North Carolina Drinking Water Certification #: 37706 North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804 Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

South Carolina Certification #: 99006001 Florida/NELAP Certification #: E87627 Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

North Carolina Wastewater Certification #: 40 South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Eden Certification IDs

205 East Meadow Road Suite A, Eden, NC 27288

North Carolina Drinking Water Certification #: 37738

North Carolina Wastewater Certification #: 633

Virginia/VELAP Certification #: 460025

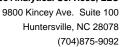


SAMPLE ANALYTE COUNT

Project: Bremo weekly Process

Pace Project No.: 92319083

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92319083001	T3-161108-0300-S3	SM 2540D	KCE	1	PASI-E
		EPA 350.1 1993 Rev 2.0	KCE	1	PASI-E
		SM 4500-CI-E-2011	KCE	1	PASI-E
		EPA 1664B	JMS	1	PASI-C
		EPA 200.7	RVK	1	PASI-O
		Trivalent Chromium Calculation	HEA	1	PASI-O
		EPA 200.8	DRS	10	PASI-O
		EPA 245.1	WAB	1	PASI-A
		EPA 218.7	AEM	1	PASI-O





PROJECT NARRATIVE

Project: Bremo weekly Process

Pace Project No.: 92319083

Method: SM 2540D

Description: 2540D TSS, Low-Level, Eden
Client: Golder_Dominion_Bremo
Date: November 11, 2016

General Information:

1 sample was analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: Bremo weekly Process

Pace Project No.: 92319083

Method: EPA 350.1 1993 Rev 2.0

Description: 350.1 Ammonia

Client: Golder_Dominion_Bremo
Date: November 11, 2016

General Information:

1 sample was analyzed for EPA 350.1 1993 Rev 2.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

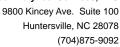
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.





PROJECT NARRATIVE

Project: Bremo weekly Process

Pace Project No.: 92319083

Method: SM 4500-CI-E-2011 Description: 4500 Chloride

Client: Golder_Dominion_Bremo
Date: November 11, 2016

General Information:

1 sample was analyzed for SM 4500-CI-E-2011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

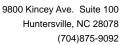
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.





PROJECT NARRATIVE

Project: Bremo weekly Process

Pace Project No.: 92319083

Method: EPA 1664B

Description: HEM, Oil and Grease
Client: Golder_Dominion_Bremo
Date: November 11, 2016

General Information:

1 sample was analyzed for EPA 1664B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: Bremo weekly Process

Pace Project No.: 92319083

Method: EPA 200.7
Description: 200.7 MET ICP

Client: Golder_Dominion_Bremo
Date: November 11, 2016

General Information:

1 sample was analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: Bremo weekly Process

Pace Project No.: 92319083

Method: Trivalent Chromium Calculation
Description: Trivalent Chromium Calculation
Client: Golder_Dominion_Bremo
Date: November 11, 2016

General Information:

1 sample was analyzed for Trivalent Chromium Calculation. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

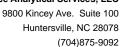
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.





PROJECT NARRATIVE

Project: Bremo weekly Process

Pace Project No.: 92319083

Method: EPA 200.8

Description: 200.8 MET ICPMS
Client: Golder_Dominion_Bremo
Date: November 11, 2016

General Information:

1 sample was analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: Bremo weekly Process

Pace Project No.: 92319083

Method: EPA 245.1 Description: 245.1 Mercury

Client: Golder_Dominion_Bremo
Date: November 11, 2016

General Information:

1 sample was analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.



PROJECT NARRATIVE

Project: Bremo weekly Process

Pace Project No.: 92319083

Method: EPA 218.7

Description: Hexavalent Chromium by IC
Client: Golder_Dominion_Bremo
Date: November 11, 2016

General Information:

1 sample was analyzed for EPA 218.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



ANALYTICAL RESULTS

Project: Bremo weekly Process

Pace Project No.: 92319083

Date: 11/11/2016 01:20 PM

Sample: T3-161108-0300-S3	Lab ID: 923	19083001	Collected: 11/08/1	6 03:00	Received:	11/09/16 14:46	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
2540D TSS, Low-Level, Eden	Analytical Met	hod: SM 254	40D					
Total Suspended Solids	1.3	mg/L	1.0	1		11/10/16 10:3	6	
350.1 Ammonia	Analytical Met	hod: EPA 35	60.1 1993 Rev 2.0					
Nitrogen, Ammonia	ND	mg/L	0.20	1		11/10/16 12:5	8 7664-41-7	
4500 Chloride	Analytical Met	hod: SM 450	00-CI-E-2011					
Chloride	61.0	mg/L	5.0	5		11/10/16 10:5	0 16887-00-6	
Field Data	Analytical Met	hod:						
Collected By Collected Date Collected Time Field pH	B. Diehl 11/08/16 03:00 7.3	Std. Units	0.10	1 1 1		11/08/16 03:0 11/08/16 03:0 11/08/16 03:0 11/08/16 03:0	7 7	
HEM, Oil and Grease	Analytical Met	hod: EPA 16	664B					
Oil and Grease	ND	mg/L	5.0	1		11/10/16 08:0	0	
200.7 MET ICP	Analytical Met	hod: EPA 20	0.7 Preparation Me	thod: EP	A 200.7			
Tot Hardness asCaCO3 (SM 2340B	193000	ug/L	3300	1	11/10/16 12:2	0 11/10/16 15:3	0	
Trivalent Chromium Calculation	Analytical Met	nod: Trivale	nt Chromium Calcula	ition				
Chromium, Trivalent	ND	ug/L	5.0	1		11/10/16 17:0	8 16065-83-1	
200.8 MET ICPMS	Analytical Met	hod: EPA 20	0.8 Preparation Me	thod: EP	A 200.8			
Antimony	ND	ug/L	5.0	1	11/10/16 12:2	0 11/10/16 15:2	8 7440-36-0	
Arsenic	40.1	ug/L	5.0	1	11/10/16 12:2	0 11/10/16 15:2	8 7440-38-2	
Cadmium	ND	ug/L	1.0	1		0 11/10/16 15:2		
Copper	ND	ug/L	5.0	1		0 11/10/16 15:2		
Lead	ND	ug/L	5.0	1		0 11/10/16 15:2		
Nickel	ND	ug/L	5.0	1		0 11/10/16 15:2		
Selenium	ND	ug/L	5.0	1		0 11/10/16 15:2		
Silver	ND	ug/L	0.40	1		0 11/10/16 15:2	-	
Γhallium	ND	ug/L	1.0	1		0 11/10/16 15:2		
Zinc	ND	ug/L	25.0	1		0 11/10/16 15:2	8 7440-66-6	
245.1 Mercury	•		5.1 Preparation Me					
Mercury	ND	ug/L	0.10	1	11/10/16 10:3	5 11/10/16 14:0	7 7439-97-6	
Hexavalent Chromium by IC	Analytical Met	hod: EPA 21	8.7					
Chromium, Hexavalent	ND	ug/L	1.0	1		11/10/16 14:5	6 18540-29-9	



Project: Bremo weekly Process

Pace Project No.: 92319083

QC Batch: 336392 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D TSS, Low Level, Eden

Associated Lab Samples: 92319083001

METHOD BLANK: 1865234 Matrix: Water

Associated Lab Samples: 92319083001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L ND 1.0 11/10/16 10:34

LABORATORY CONTROL SAMPLE: 1865235

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** mg/L 250 248 99 90-110

SAMPLE DUPLICATE: 1865236

Date: 11/11/2016 01:20 PM

 Parameter
 Units
 Result Result Result
 RPD Qualifiers

 Total Suspended Solids
 mg/L
 1.1
 1.1
 0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



EPA 350.1 1993 Rev 2.0

350.1 Ammonia, EDEN

Analysis Method:

Analysis Description:

Project: Bremo weekly Process

Pace Project No.: 92319083

Date: 11/11/2016 01:20 PM

QC Batch: 336396

QC Batch Method: EPA 350.1 1993 Rev 2.0

Associated Lab Samples: 92319083001

METHOD BLANK: 1865265 Matrix: Water

Associated Lab Samples: 92319083001

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Nitrogen, Ammonia mg/L ND 0.20 11/10/16 12:54

LABORATORY CONTROL SAMPLE: 1865266

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Nitrogen, Ammonia mg/L 5.2 105 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1865268 1865267 MS MSD MS 92319105001 Spike Spike MSD MS MSD % Rec Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual Nitrogen, Ammonia ND 5 5 5.1 90-110 mg/L 4.9 101 98 3

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Bremo weekly Process

Pace Project No.: 92319083

Date: 11/11/2016 01:20 PM

QC Batch: 336395 Analysis Method: SM 4500-CI-E-2011
QC Batch Method: SM 4500-CI-E-2011 Analysis Description: 4500 Chloride, EDEN

Associated Lab Samples: 92319083001

METHOD BLANK: 1865258 Matrix: Water

Associated Lab Samples: 92319083001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Chloride mg/L ND 1.0 11/10/16 10:39

LABORATORY CONTROL SAMPLE: 1865259

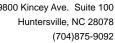
Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chloride mg/L 10 9.8 98 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1865260 1865261

MS MSD

92319105001 Spike Spike MS MSD MS MSD % Rec Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual 59.9 70.6 90-110 2 Chloride mg/L 10 10 69.2 92 106

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: Bremo weekly Process

Pace Project No.: 92319083

Date: 11/11/2016 01:20 PM

QC Batch: 336332 Analysis Method: EPA 1664B

QC Batch Method: EPA 1664B Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 92319083001

METHOD BLANK: 1864998 Matrix: Water

Associated Lab Samples: 92319083001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Oil and Grease mg/L ND 5.0 11/10/16 08:00

LABORATORY CONTROL SAMPLE &	LCSD: 1864999		18	365000						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	40	35.8	36.0	90	90	78-114	1	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Bremo weekly Process

Pace Project No.: 92319083

Date: 11/11/2016 01:20 PM

QC Batch: 336387 Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury

Associated Lab Samples: 92319083001

METHOD BLANK: 1865210 Matrix: Water

Associated Lab Samples: 92319083001

ParameterUnitsBlank ResultReporting LimitAnalyzedQualifiersMercuryug/LND0.1011/10/16 13:55

LABORATORY CONTROL SAMPLE: 1865211

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Mercury ug/L 2.5 2.7 108 85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1865212 1865213

MS MSD 92319105001 Spike Spike MS MSD MS MSD % Rec Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual ug/L ND 2.5 2.5 2.2 2.4 70-130 Mercury 86 96 11

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



EPA 200.7

200.7 MET

Project: Bremo weekly Process

Pace Project No.: 92319083

QC Batch: 331456 Analysis Method: QC Batch Method: EPA 200.7 Analysis Description:

Associated Lab Samples: 92319083001

METHOD BLANK: 1772478 Matrix: Water

Associated Lab Samples: 92319083001

Blank Reporting Parameter Limit Qualifiers Units Result Analyzed

Tot Hardness asCaCO3 (SM 2340B ND 3300 11/10/16 15:22 ug/L

LABORATORY CONTROL SAMPLE:

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Tot Hardness asCaCO3 (SM 2340B ug/L 82700 78000 94 85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1772480 1772481 MS MSD 92319083001 Spike Spike MS MSD MS MSD % Rec Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual

Tot Hardness asCaCO3 (SM 193000 82700 82700 262000 70-130 ug/L 265000 84 88 1 2340B

Date: 11/11/2016 01:20 PM

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Bremo weekly Process

Pace Project No.: 92319083

QC Batch: 331457 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET

Associated Lab Samples: 92319083001

METHOD BLANK: 1772490 Matrix: Water

Associated Lab Samples: 92319083001

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/10/16 15:23	
Arsenic	ug/L	ND	5.0	11/10/16 15:23	
Cadmium	ug/L	ND	1.0	11/10/16 15:23	
Copper	ug/L	ND	5.0	11/10/16 15:23	
Lead	ug/L	ND	5.0	11/10/16 15:23	
Nickel	ug/L	ND	5.0	11/10/16 15:23	
Selenium	ug/L	ND	5.0	11/10/16 15:23	
Silver	ug/L	ND	0.40	11/10/16 15:23	
Thallium	ug/L	ND	1.0	11/10/16 15:23	
Zinc	ug/L	ND	25.0	11/10/16 15:23	

LABORATORY CONTROL SAMPLE: 17724	491	17724	SAMPLE:	ABORATORY CONTROL
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Date: 11/11/2016 01:20 PM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L		45.3	91	85-115	
Arsenic	ug/L	50	49.8	100	85-115	
Cadmium	ug/L	5	4.7	95	85-115	
Copper	ug/L	50	52.0	104	85-115	
Lead	ug/L	50	47.9	96	85-115	
Nickel	ug/L	50	51.0	102	85-115	
Selenium	ug/L	50	50.5	101	85-115	
Silver	ug/L	5	4.8	96	85-115	
Thallium	ug/L	50	48.6	97	85-115	
Zinc	ug/L	250	252	101	85-115	

MATRIX SPIKE & MATRIX SI	PIKE DUPLICAT	E: 17724	92		1772493						
			MS	MSD							
	923	319105001	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Antimony	ug/L	ND	50	50	51.4	49.8	94	91	70-130	3	
Arsenic	ug/L	37.1	50	50	86.7	85.3	99	96	70-130	2	
Cadmium	ug/L	ND	5	5	4.8	4.6	96	92	70-130	4	
Copper	ug/L	ND	50	50	50.3	48.9	100	97	70-130	3	
Lead	ug/L	ND	50	50	51.8	50.3	103	100	70-130	3	
Nickel	ug/L	ND	50	50	51.8	50.4	100	97	70-130	3	
Selenium	ug/L	ND	50	50	49.8	48.3	99	96	70-130	3	
Silver	ug/L	ND	5	5	4.7	4.4	93	88	70-130	6	
Thallium	ug/L	ND	50	50	53.4	51.8	106	103	70-130	3	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: Bremo weekly Process

Pace Project No.: 92319083

Date: 11/11/2016 01:20 PM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1772492 1772493											
		MS	MSD								
	923	19105001	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Zinc	ug/L	ND	250	250	246	237	97	94	70-130	4	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Bremo weekly Process

Pace Project No.: 92319083

Date: 11/11/2016 01:20 PM

QC Batch: 331446 Analysis Method: EPA 218.7

QC Batch Method: EPA 218.7 Analysis Description: Chromium, Hexavalent IC

Associated Lab Samples: 92319083001

METHOD BLANK: 1772415 Matrix: Water

Associated Lab Samples: 92319083001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Chromium, Hexavalent ug/L ND 1.0 11/10/16 12:46

LABORATORY CONTROL SAMPLE: 1772416

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chromium, Hexavalent ug/L .075 .066J 88 85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1772417 1772418

MS MSD 92318622001 Spike Spike MS MSD MS MSD % Rec Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual Chromium, Hexavalent ug/L ND 85-115 .38 .38 .35J .36J 93 97 4

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: Bremo weekly Process

Pace Project No.: 92319083

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

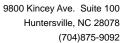
TNI - The NELAC Institute.

LABORATORIES

Date: 11/11/2016 01:20 PM

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-E	Pace Analytical Services - Eden

PASI-O Pace Analytical Services - Ormond Beach





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bremo weekly Process

Pace Project No.: 92319083

Date: 11/11/2016 01:20 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92319083001	T3-161108-0300-S3	SM 2540D	336392		
92319083001	T3-161108-0300-S3	EPA 350.1 1993 Rev 2.0	336396		
92319083001	T3-161108-0300-S3	SM 4500-CI-E-2011	336395		
92319083001	T3-161108-0300-S3				
92319083001	T3-161108-0300-S3	EPA 1664B	336332		
92319083001	T3-161108-0300-S3	EPA 200.7	331456	EPA 200.7	331486
92319083001	T3-161108-0300-S3	Trivalent Chromium Calculation	331560		
92319083001	T3-161108-0300-S3	EPA 200.8	331457	EPA 200.8	331491
92319083001	T3-161108-0300-S3	EPA 245.1	336387	EPA 245.1	336393
92319083001	T3-161108-0300-S3	EPA 218.7	331446		



Out of hold, incorrect preservative, out of temp, incorrect containers)

Document Name: Sample Condition Upon Receipt(SCUR)

Document No.:

Document No.: F-MEC-CS-009-Rev.03

Document Revised: May 24, 2016 Page 1 of 2

Issuing Authority:
Pace Mechanicsville Quality Office

Page 2 of 2 for Into---

Courter: Fred Ext	Sample Condition Upon Client Name:	,			Project # WO# : 92319083
Courter:	Receipt	len/Bri	าดก		
Custody Seal Present?	Courier: Fed Ex	□UPS □L	JSPS		
Packing Material: Bubble Wrop Bubble Bags None Other: None Samples Onleans: 1-9-16	☐ Commercia I		Other:		92319083
Packing Material) Bubble Wrap Bubble Bags None Other Samples on ice, cooling process has bague RND001 Type of Ige: Wet Bible RND0 Samples on ice, cooling process has bague RND001 Type of Ige: Bible RND0 Samples on ice, cooling process has bague RND001 Type of Ige: Bible RND0 Samples on ice, cooling process has bague RND001 Type of Ige: RND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign source (internationally, including lawwaii and Puerto Rico? Types ND0 N/A Samples originate from a foreign sour	Custody Seal Present? Yes No	Seals Intact?	™ Y	es [□No 11-9-16-
The monetary of RMD001	Packing Material: TBubble Wran	NBubble Bac	,	lone	
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Temp should be above freezing to 5°C USDAR Regulated Solf NA water sample) Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? No NA Chain of Custody Present? No NA Samples Arrived within Hold Time? No NA Samples Arrived within Hold Time? No NA Short Hold Time Analysis (e72 hr)? No NA Sufficient Volume? No NA			j j	[⊿ i ∧∧er	
USDA Regulated Soil NA, water sample) Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No NA	•	ected (°C):2	<u>alp</u>		Biological Tissue Frozen? Yes No N/A
Did samples originate fin a quarantine zone within the United States; CA, NY, or SC (check maps)? Did samples originate from a foreign source (internationally, including Jewasii and Puerto Rico? Pres No NA 1.					•
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-Pace Containers Used? Containers Intact? Samples Field Filtered? Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	Sufficient Volume?	☑Yes	□No	□N/A	5.
Containers Intact? Samples Field Filtered? Samples Field Filtered? Samples Labels Match COC? Includes Date/Time/ID/Analysis Matrix: All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? All containers NOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg Samples Checked for dechlorination? Trip Blank Present? Trip Blank Lot # (if purchased): CLIENT NOTIFICATION/RESOLUTION Project Manager SCURF Review: Project Manager SRF Review: Wes No DANA 10. HNCD pHV2	Correct Containers Used?	⊻ yes	□No	□n/a	6.
Samples Field Filtered? Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (RINOs, H-SOs, HCI-Cz, NaOH >9 Suffide, NaOH>12 Cyanide) Exceptions: VOA, Colliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg Samples checked for dechlorination? Trip Blank Custody Seals Present? Pace Trip Blank Custody Seals Present? CUENT NOTIFICATION/RESOLUTION Person Contacted: COmments/Sample Discrepancy: Project Manager SCURF Review: Date: IIIQIIb Project Manager SFR Review: Date: IIIQIIb Date: IIIQIIb Date: IIIQIID Dat	-Pace Containers Used?	✓yes	□No	□N/A	
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (NNOs, htsCa, htsCa; NaOH >9 Suffide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, ToC, Oil and Grease, DRO/8015 (water) DOC,LLHg Samples checked for dechlorination? Headspace in VOA Vials (>5-6mm)? Trip Blank Present? Trip Blank Custody Seals Present? Pace Trip Blank Lot # (if purchased): CLIENT NOTIFICATION/RESOLUTION Person Contacted: Comments/Sample Discrepancy: Date: Date	Containers Intact?	Ves	□No	□у/А	7.
-Includes Date/Time/ID/Analysis Matrix: All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (IHNOs, H ₂ SOs, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LHg Samples checked for dechlorination? Yes No M/A 11. Headspace in VOA Vails (>5-6mm)? Yes No M/A 13. Trip Blank Present? Trip Blank Custody Seals Present? Yes No M/A 13. Trip Blank Lustody Seals Present? Project Manager SCURF Review: Project Manager SCURF Review: Date: IIIq IIq II	Samples Field Filtered?	□Yes	□No	☑ N/A	8. Note if sediment is visible in the dissolved container
-Includes Date/Time/ID/Analysis Matrix:	Sample Labels Match COC?	✓Yes	□No	□n/a	9.
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₃ CO ₄ , HCI-2 ² , NaOH >9 Sulfide, NaOH-12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg Samples checked for dechlorination? Yes No No N/A Headspace in VOA Vials (>5-6mm)? Trip Blank Present? Trip Blank Custody Seals Present? Pes No No N/A Pace Trip Blank Lot # (if purchased): CUENT NOTIFICATION/RESOLUTION Person Contacted: Comments/Sample Discrepancy: Project Manager SCURF Review: Date: Ill@llb Project Manager SRF Review: Date: Ill@llb Date: Ill@llb	-Includes Date/Time/ID/Analysis Matrix:	JW -			
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Samples checked for dechlorination? Yes No My/A 11. Headspace in VOA Vials (>5-6mm)? Yes No My/A 12. Trip Blank Present? Yes No My/A 13. Trip Blank Custody Seals Present? Yes No My/A Pace Trip Blank Lot # (if purchased):		□ v	Π	F74.74	
Headspace in VOA Vials (>5-6mm)? Yes					
Trip Blank Present? Yes					
Trip Blank Custody Seals Present?					
Person Contacted:	•				15.
Person Contacted: Comments/Sample Discrepancy: Project Manager SCURF Review: Date:	·	<u>C</u> 1es		SZIN/A	
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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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						es to be performed o	ADDITION												T3-16,	SAMPLE ID (A-Z, 0.9 /) Sample IDs MUST BE UNIQUE	Section D Required Client Information		Requested Due Date/TAT:	804-551-0129	Mormand@golder.com	Richmond, VA 23227	2108 W Lal	Golder Associates	Section A Required Client Information:
					\	All analyses to be performed under Golder-Pace MSA dated 12/19/2008	ADDITIONAL COMMENTS												1108-0300-53	WATER WY PROJUCT SL SOLUSOLD TS T BE UNIQUE TISSUE TS			MADUR W 3-Day	Fax: 804-358-2900	golder.com	A 23227	2108 W Laburnum Ave, Ste 200	ociates	
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